

**ABSTRACT**

5 The present invention is directed to an apparatus for anchoring a tubular element, preferably  
in the form of a catheter, within a passageway formed in a mammalian body, such as in a vessel,  
artery, duct, channel, or the like. The apparatus comprises a tubular element having a flexible,  
10 elongated, hollow tubular outer lumen with a central longitudinal axis extending therethrough, the  
outer lumen having a proximal end and a distal end. The apparatus further comprises deployment  
means positioned within the outer lumen and slidable with respect to the outer lumen. The  
deployment means has a proximal end and a distal end. The apparatus further comprises a plurality  
of resilient anchoring members preferably formed of a pseudoelastic material. The anchoring  
members are coupled to the distal end of the deployment means and extend longitudinally beyond the  
15 distal end of the deployment means. Each anchoring member is reversibly movable by the deployment  
means between a first position and a second position. In the first position, at least a portion of each  
anchoring member is retracted within the outer lumen of the tubular element. In the second position,  
at least a portion of each of the anchoring members is deployed exteriorly to the outer lumen of the  
tubular element, so as to engage an inner wall of the mammalian passageway and anchor the tubular  
element in a selected position within the passageway.